

Application No. 10/699,393  
Response Dated June 20, 2006  
Reply to Office Action of February 21, 2006

**Amendments to the Abstract**

Please replace the abstract with the following replacement abstract:

The present invention relates to novel antithrombotic variants of thrombin or fragments thereof that are capable of proteolytically activating protein C, but which are substantially free of fibrinogen cleavage activity. The present invention further relates to variant ~~polypeptides~~ polypeptides that may be cleaved to yield active thrombin variants. The present invention also relates to methods of inhibiting thrombus formation in an animal or human subject by delivering an antithrombotic variant thrombin of the present invention to the blood of the subject. The present invention relates also to methods that use the novel variant thrombins for determining the level of protein C activation in a blood sample, or the thrombogenic potential of a patient.